

ABSTRACT

Resistance genes and their encoded proteins from the wild potato, *Solanum*
5 *bulbocastanum*, are disclosed. The genes and proteins are useful for conferring disease
resistance to plants, particularly solanaceous species such as potato and tomato. In particular, the
genes confer resistance to potato late blight. Compositions and methods that use the genes and
proteins to enhance plant disease resistance are also disclosed, as are transgenic plants that
comprise the resistance genes.

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